

General  
Faxon

## Index of Contributors

- BANISTER, DR H. 584  
BARNE, M. 17, 81, 141  
BASTIN, H. 561  
BIRT, D. H. C. 461  
BROGDEN, S. 412  
BURR, DR M. 340, 407, 660  
  
CHAPMAN, PINCHAR H. 515  
CLARK, DR R. E. D. 351, 431, 665  
COURTNEY BRYSON, H. 3, 55  
CRUTCHLEY, E. A. 316  
  
DARLING, DR F. F. 112, 287, 622  
DARWALL, REV. D. W. 188  
DAVIDSON, M. 428, 639  
DICK, W. E. 373, 467  
  
ECCLESHARE, C. 254  
EVANS, D. S. 501  
EVANS, F. 354  
  
FAIRMAN, H. W. 385  
FALLAIZE, E. N. 539, 604  
  
GALLOP, R. 218, 529  
GAMOW, PROF. G. 24, 63, 134, 175, 230  
GODWIN, DR H. 308  
GREW, K. E. 523  
  
HARRISON, R. 590  
HERNE, H. 152, 599  
HETTINGER, DR J. 653  
HILL, R. 60  
HODSON, C. B. S. 426  
HOLMES, W. 275  
HORNE, L. 69  
  
ILLINGWORTH, F. 642  
  
JAMES, C. G. 127  
  
KELWAY, P. 421  
KENDON, F. 543  
KIDNER, R. W. 190  
"T.K." 314, 602  
  
LESTER, R. M. 370, 663  
LORANT, M. 200  
  
MAGDEBURG, E. 366  
MARCH, C. H. 91, 193  
MARSH, DR M. C. 630  
MARSTON, DR A. T. 8  
MAYER, D. W. F. 459  
  
NASH, S. G. 594  
NOONE, R. O. D. 298  
NOWINSKI, DR W. W. 392  
  
OLDHAM, S. 227  
  
PETRIE, SIR FLINDERS 281  
PIGOT, F. 60  
PIRIE, DR A. 559  
PROUDFOOT, W. B. 418  
  
RABEL, DR G. 121, 169, 360, 587  
RITCHIE, F. W. 188  
ROBINSON, J. 491  
  
SOLOMON, A. K. 331, 484  
SPENCER JONES, DR H. 36  
STAPLETON, G. 445  
  
THOMAS, J. F. 94  
  
UBBELOHDE, A. R. 235  
  
VALENTINE, D. H. 246, 606  
VALLIUS, G. H. 157, 206  
  
WADDINGTON, C. H. 34, 283, 376, 399  
WALKER, GREGORY N. W. 163  
WARD, J. D. U. 578  
WATCHORN, DR E. 619  
WIDDOWSON, DR E. E. 569  
WINTER, H. T. 596  
  
YUDKIN, DR J. 511

## Index of Articles

- |                                |          |                                        |          |
|--------------------------------|----------|----------------------------------------|----------|
| Age of Athens, The             | page 604 | Building a Modern Telescope            | page 501 |
| Ancient Egyptian Frontier Town | 385      | Bureau of Human Heredity               | 426      |
| Ancient History of the Ship    | 461      | Butterbur, The                         | 246      |
| Animal Poisoners               | 515      | Camouflage in Nature                   | 561      |
| Basques, The                   | 529      | Camouflage, Secrets of                 | 467      |
| Biological Control             | 578      | Change in the Earth's Surface          | 491      |
| Blood Transfusion              | 511      | Changing Flower Patterns by Artificial |          |
| Broadcasting for Schools       | 157      | Means                                  | 587      |

Chemistry of the Internal Combustion Engine	page 235	Meteors	page 428
China's New Road	445	Minerals in Wartime Food	619
Cloud Chamber, The	484	Models of Atoms	665
Clouds, Notes on	60	Monomolecular Layers	569
Coast Erosion	188	Mr Tompkins in Wonderland. II	24
Colour in Painting. I. The Importance of Colour in Art	17	Mr Tompkins in Wonderland. III	63
Colour in Painting. II. Harmony	81	Mr Tompkins in Wonderland. IV	134
Colour in Painting. III. Balance of Tone and Quality of Colour	141	Mr Tompkins in Wonderland. V	175
Cromagnon Man, A Domain of	298	Mr Tompkins in Wonderland. VI	230
Cyclotron, The	331	New Tool in Biology	34
Discovering History	281	Nutrition and Health. IV	91
Discovery of a Pre-Roman Well at Ewell	594	Nutrition and Health. V	193
Discovery of Quinine	152	Origin of the Moon	639
Do Earwigs Fly?	407	Pagan Cult Survives in Mexico, A	218
Dormouse and Harvest Mouse	421	Plant Communities	606
Early History of the Microscope	599	Plants Without Soil	399
Earwig Problem, An	340	Pottery and Statuettes from Ancient Egypt	539
Easter Island Culture	190	Printing	316
Emulsions in Industry	602	Psychology of Press Competitions	412
Energy from Matter	459	Puzzle of Antlers	287
English Toadstools	590	Raw Materials of Evolution	283
Flower Problems. I. The Butterbur	246	Retirement of Sir Daniel Hall	373
Flower Problems. II. The Lesser Celandine	308	Riddle of Bonellia	392
Folklore in Wallonie	275	Scarecrow Magic in the Ice Age	360
Food of the Little Owl	94	Science of Washing	314
Freud. An Appreciation of Sigmund	584	Scientific Instruments, The Making of	630
Fringe of the Sun	127	Separating Isotopes	523
Fundamentals of Photography	543	Size of the Universe	200
Future of Secondary Education	206	Speed of Birds	596
Gold Cures in Modern Medicine	418	Survey of Pneumonia Treatment	227
How a Town once Conquered Drought	660	Swanscombe Skull	8
How Much Does it Rain?	663	Synthetic Plastics. Their Influence on the Future. I	3
How Stained Glass is Made	163	Synthetic Plastics. Their Influence on the Future. II	55
I Lived with Seals	112	Turn of the Tide	431
In Lapland Now	642	Ultra Perceptive Faculty	653
Is there Life in Other Worlds?	36	Vitamins in War Time	559
Legacy of 1939	351	War Films and Child Opinion	354
Lesser Celandine, The	308	Weather, The	254
Long before Darwin. I. Linné's Views on the Origin of Species	121	Weather and Disease	370
Long before Darwin. II	169	What Makes You a Man?	376
		Wild Animals at Close Quarters	69
		Wild Life Conservation	622
		World of Its Own, A	366

## Notes of the Month

### Index

Action of Strychnine, The	page 183	Artificial Sun for Winter Plants	page 403
Agricultural Research	32	Association for the Advancement of Science at Canberra	149
Alarm Clock Tinder Lighter	245	Barger, Dr George	89
Analysis of Infra Red Spectra	345	Carcinogenic Parasite, A	651
Artificial Preparation of a Missing Element	240	"Cave Bear Culture"	348

Celebr  
Chem  
Uro  
Chem  
Cultu  
and  
Diagn  
Discov  
Earlies  
Arch  
Elastic  
Electri  
Energy  
Deve  
Evapor  
Eviden  
Evolut  
Fish-W  
Gases  
Germ  
Gregor  
Intrave  
Invisibi  
Knock-  
Life of  
Living  
Longev  
Lookin  
Mappin  
Paint  
Mechan  
Missing  
dom  
"Micro  
Multim  
Nationa  
Nature  
  
Against  
Blueprint  
The Fat  
The Fir  
Gives  
A messa  
for th  
Learn

I. TH  
II. TH  
III. Pr  
IV. W  
V. TH

428	Celebrations at Les Eyzies	page 297	New Bones for Old	page 184
619	Chemical Basis of Sex Appeal in Sea		New Industry and a New Textile from	
665	Urchin Eggs	483	Sodium Alginate, A	577
569	Chemistry and Cancer	405	New Steel, A	347
24	Cultural Relations between Britain		New Synthetic Resin for Blood System	
63	and Brittany	296	Models	346
134	Diagnosing Diphtheria	183	New Technique for Mineral Prospecting	574
175	Discovery of the Coffins at Tanis	243	New Treatment for Sprains	346
230	Earliest Known Example of Systematic		New Type of Atom Splitting	181
34	Architecture	244	Oil in England	476
91	Elasticity of Rubber, The	650	Origin of the Great Nebulae	148
193	Electric Battery 2000 Years Ago	149	Oxidation and the Tarnishing of Metals	525
639	Energy from Matter: Some Recent		Perception of Pitch in Insects	347
218	Developments	573	Photosynthesis with Inorganic Catalysts	575
606	Evaporography	242	Problem of Cancer, The	148
399	Evidence of Early Cave Man in Oregon	186	Quick-set Resins	650
	Evolution of Vitamin A	293	Radio Typewriter	478
539	Fish-Wool	88	Recent Improvements in Plywoods	576
316	Gases for Ripening Fruit	477	Relief for the Oppressed Heart	294
412	Germ to Catch a Germ	574	Salt Cure for Hayfever	244
287	Gregory, Sir Richard	29	Saxon Ship Burial in East Anglia	479
283	Intravenous Feeding	403	Science Masters at Cambridge	90
373	Invisible Glass	182	Scientific Limit for Motor Horns	478
392	Knock-free Fuels	476	Scientific Side of A.R.P.	349
360	Life of a Glacier Grain	649	Seeing in the Dark	295
314	Living Fossil from South Africa	240	Small Eggar Moth	90
630	Longevity of Oarsmen	349	Sound Reproduction on Paper	574
523	Looking into the Knee Joint	652	Splitting of Uranium	239
200	Mapping Temperatures by Pyrometric		Sugar Substitute, A	652
596	Paints	185	Susceptibility to Alcohol	526
227	Mechanism of Corrosion	404	Temperature and Insect Activity	528
8	Missing Links in the Vegetable King-		Tissue Movements in the Embryo	406
	dom	88	Transformation of Energy and the	
3	"Micronutrients" and Plants	527	Mechanical Work of Muscles	31
	Multimolecular Films	182	Transfusion of Stored Blood	29
55	National Defence and the Scientist	87	Vermiculite: A New Insulating Material	526
431	Nature of Polishing, The	295	Vitamin B <sub>1</sub> and the Stimulation of Nerves	294

## Editorial Notes and Comments

370	Against Destructiveness	page 557	A New Means of Destruction?	page 443
376	Blueprint of the Future of Science	107	A New Attempt to Explain Modern	
69	The Fate of Homo Sapiens	499	Physics	329
622	The First Excitement that Knowledge		Race, Nations, Class: Lessons of	
366	Gives	161	Genetics	271
	A message from Sir William Beveridge		Science and Air Warfare	215
	for the Protection of Science and		Scientific Prophecies	1
	Learning	53	The Truth of Genetics	617

## Invitations to Knowledge

page 403	I. The Size of the Universe	page 200	VI. Change in the Earth's Surface	page 491
of	II. The Weather	254	VII. Fundamentals of Photography	543
149	III. Printing	316	VIII. Plant Communities	606
89	IV. What Makes You a Man?	376	IX. Models of Atoms	665
651	V. The Turn of the Tide	431		
348				

## Reviews

- Adams, F. D., *The Birth and Development of Geological Sciences*, 381
- Barclay-Smith, P. and Zimmerman, R., edited by, *The Naturalist's Calendar*, 50
- Bergmann, Dr L., *Ultrasonics and their Scientific and Technical Applications*, 384
- Bernal, J. D., *The Social Function of Science*, 107
- Bertram, Colin, *The Technique of Polar Travel*, 552
- Bigger, J. W., *Man Against Microbe*, 324
- Boveri, Margret, *Minaret and Pipe Line*, 671
- Buchsbaum, Ralph, *Animals Without Backbones*, 382
- Burr, Malcolm, *The Insect Legion*, 550
- Byrd, Richard E., *Alone*, 212
- Carleton, Patrick, *Buried Empires*, 439
- Casteret, Norbert, *Ten Years Under the Earth*, 553
- Chopard, L., *La Biologie des Orthoptères*, 51
- Clark, J. A., F. R. Gorton and F. W. Sears, *Physics of Today*, 380
- Darling, F. Fraser, *A Naturalist on Rona*, 496
- Darlington, C. D., *The Evolution of Genetic Systems*, 264
- Davison, E. H., *Field Determination of Rocks*, 269
- Dietz, David, *Builders of Health*, 269
- Duncan, Carl D. and Gayle Pickwell, *The World of Insects*, 554
- Eve, A. S., *Rutherford*, 611
- Elkin, A. P., *The Australian Aborigines—How to Understand Them*, 268
- Ferchl, Fritz and A. Süssengoth, *A Pictorial History of Chemistry*, 265
- Filchner, W., *A Scientist in Tartary*, 556
- Fisher, James, *Birds As Animals*, 266
- Frazer, Sir J. G., ed. by Downie, R. A., *The Native Races of Africa and Madagascar*, 103
- Frazer, Sir J. G., ed. by Downie, R. A., *The Native Races of Australasia*, 550
- Goldschmidt, Richard, *Ascaris, The Biologist's Story of Life*, 48
- Gooch, Bernard, *The Quiet World of Nature*, 614
- Hanström, Bertil, *Hormones in Invertebrates*, 672
- History of Cambridgeshire and the Isle of Ely*, Vol. I. (Victoria County Histories), 262
- Kelway, Phyllis, *A House in the Woods*, 497
- de Kruif, Paul, *Men Against Death*, 106
- Lakhovsky, Georges, *The Secret of Life*, 266
- Lewis, Norman, *Sand and Sea in Arabia*, 48
- Lobeck, A. K., *Geomorphology*, 554
- Loeb, Leonard B., *Atomic Structure*, 268
- Lubinski, Kurt, *This is our World*, 214
- Macan, T. T., *A Key to the British Species of Corixidae*, 555
- Mangham, Sydney, *Earth's Green Mantle*, 551
- Marett, R. H. K., *An Eye-witness of Mexico*, 441
- Massingham, H. J., *Country Relics*, 671
- Matschoss, Prof. C., *Great Engineers*, 555
- Perry, Richard, *At The Turn of the Tide*, 100
- Petrie, Sir Flinders, *The Making of Egypt*, 263
- Pickwell, Gayle, *Deserts*, 326
- Pitt, Francis, *Wild Animals in Britain*, 209
- Priestly, J. H. and L. I. Scott, *An Introduction to Botany*, 159
- Proctor, Mary, *Astronomy for Everyman*, 270
- Raymond, Percy E., *Prehistoric Life*, 441
- Riesman, David, *Medicine in Modern Society*, 269
- Robins, F. W., *The Story of the Lamp*, 441
- Salter, W. H., *Ghosts and Apparitions*, 210
- Saltmarsh, H. F., *Fore-knowledge*, 210
- Saunders, E. R., *Floral Morphology*, 550
- Scheinfeld, Amram, *You and Heredity*, 617
- Schieldrop, E. B., *The Railway. The Highway*, 554
- Södermann, H. and J. J. O'Connell, *Modern Criminal Investigation*, 105
- Stark, Freya, *Seen in the Hadhramaut*, 211
- Tansley, A. G., *The British Islands and Their Vegetation*, 613
- Taylor, F. Sherwood, *Galileo and the Freedom of Thought*, 159
- Vesey-Fitzgerald, Brian, *A Book of British Waders*, 381
- Waddington, C. H., *An Introduction to Modern Genetics*, 271
- Wells, H. G., *The Fate of Homo Sapiens*, 499
- Whitehead, A. N., *Modes of Thought*, 325
- Witherby, H. F. and others, *Handbook of British Birds*, Vol. II, 104
- Witherby, H. F. and others, *Handbook of British Birds*, Vol. III, 438
- Wolf, A., *A History of Science, Technology and Philosophy in the Eighteenth Century*, 265
- Wright, W. B., *Tools and the Man*, 325
- Wright, W. D., *The Perception of Light*, 268

### LETTERS FROM READERS

156, 197, 250, 312, 363, 414, 497

### SPECIAL PLATES

Snow in the Harz, Germany  
Small Eggar Moth

page 33  
68

Australian Frilled Lizard  
The Swallow-tail Butterfly

page 151  
267

Life, 266  
abia, 48  
268  
14  
Species of  
antle, 551  
exico, 441  
671  
s, 555  
Tide, 100  
Egypt, 263  
n, 209  
roduction  
man, 270  
441  
n Society,  
p, 441  
s, 210  
10  
550  
y, 617  
Highway,  
l, Modern  
t, 211  
and Their  
Freedom  
of British  
o Modern  
iens, 499  
t, 325  
dbook of  
dbook of  
ology and  
ry, 265  
25  
ght, 268